



Dr. JITENDRA J DHRUV

Qualification : Ph.D.

Designation : Associate Professor

Experience : 30 Years

Specialized Subject : Biochemistry

Personal Details :

E mail

hodbiochem@aau.in

jitendra_dhruve@yahoo.com

+91-9427893471

Research publications

Research papers published 57

Paper presented in International conference 10

Paper presented at symposia/seminar 15

Books 10

Laboratory Manual 03

Number of P.G. Students guided

M.Sc. : 11

Ph.D. : 05

Number of P.G. Students under guidance

M.Sc. : 00

Ph.D. : 01

Academic Awards and Activities

Awards
Fellow of the Indian Society of Agricultural Biochemists
Best poster Presentation - 2
Best Oral presentation - 2
Young Scientist - 1
Statement of Gratitude, Ganpat University, - 1
Reviewer Awards from Various Journals - 51

Contribution For the Evaluation of Crop Varieties of Anand Agril.University, Anand , Gujarat, INDIA 38

Contribution for the development of Agro technologies for the farmers 07

Book Published:10

Sr. No.	Title of the Book	Publisher	Publication Year
1	Biochemistry at a glance ISBN : 81-8321-084-8	Agrotech Publishing Academy, Udaipur 313 002	2007
2	Glossary of biochemistry and biotechnology ISBN : 81-8189-201-1	International book Distributing Co., Lucknow	2007
3	DNA- a bridge between biochemistry and biotechnology ISBN : 81-89422-24-3	New India Publishing Agency, New Delhi 110 088	2008
4	Plant secondary metabolites ISBN 9788190851220	New India Publishing Agency, New Delhi 110 088	2009
5	Benzyl adenine: a protective tool for water stress ISBN no. 978-3-8473-2405 -8	Lambert Academic Publishing GmbH & Co., KG, Germany	2011
6	A bridge between quality and yield in tomato ISBN no. 978-3-659-21303-8	Lambert Academic Publishing GmbH & Co., KG, Germany	2012
7	Fenugreek – born for human health ISBN no. 978-3-659-74253-8	Lambert Academic Publishing GmbH & Co., KG, Germany	2015
8	Nutraceutical characterization of okra genotypes ISBN no. 978-3-659-94839-8	Lambert Academic Publishing GmbH & Co., KG, Germany	2016
9	Nutraceuticals and functional foods- the challenges and opportunities	Anand Agricultural University, Anand, Gujarat, India Indian Society of Agricultural Biochemists (Kanpur)	2016
10	Biochemical Techniques in your hand ISBN: 978-93-90611-27-0	Jaya Publishing House, Delhi	2021

Project/Scheme conducted/completed in which associated as a Principle Investigator

Sr. No.	Project / Scheme	Sponsored by	Duration
1	To evaluate the public and private sector bred tomato varieties/hybrids cultivated in Gujarat state for fruit yield, disease resistance and quality for processing purpose	Gujarat Agro Industries, Ahmedabad	2008-09 (1 Year)
2	To Study The Bioefficacy Of Silixol (Stabilized Silicic Acid In Liquid Form) On Brinjal	Privi Pharma Private Limited, Mumbai	2008-11 (3 Year)
3	To Study The Bioefficacy Of Silixol (Stabilized Silicic Acid In Liquid Form) On Chilli	Privi Pharma Private Limited, Mumbai	2008-11 (3 Year)
4	To Study The Bioefficacy Of Silixol (Stabilized Silicic Acid In Liquid Form) On Okra	Privi Pharma Private Limited, Mumbai	2008-11 (3 Year)
5	To Study The Bioefficacy Of Silixol (Stabilized Silicic Acid In Liquid Form) On Tomato	Privi Pharma Private Limited, Mumbai	2008-11 (3 Year)
6	Study the Bio efficacy of PriviNutrivitTrypto on Brinjal	Privi Pharma Private Limited, Mumbai	2011-13 (2 Year)
7	Study the Bio efficacy of PriviNutrivit super set on Brinjal	Privi Pharma Private Limited, Mumbai	2011-13 (2 Year)
8	To study the Bio-efficacy of Privi gold on	Privi Pharma Private	2011-13

	tomato	Limited, Mumbai	(2 Year)
9	To study the Bio-efficacy of Privi silver on tomato	Privi Pharma Private Limited, Mumbai	2011-13 (2 Year)
10	Nutraceutical importance and molecular characterization of okra	GSBTM, Gandhinagar	2014-17 (3 Year)

Membership in Scientific Organizations

1. Life Member Ship Indian J of Agricultural Biochemists, Kanpur, Life membership no. L-192.
2. Life membership of the Vigyan Bharti, Gujarat Unit, Life member no. 6

Member of Editorial Board

1. International Invention Journal of Biochemistry and Bioinformatics (IJBB) from 18th November 2013
2. Agriculture Acta Scientific (ISSN: 2581-365X) from August 2018
3. Indian Journal of Agricultural Biochemistry (ISSN 0970 – 6399) from 2019

Secretary

- Indian Society of Agricultural Biochemists (ISAB), Gujarat Chapter, Department of Biochemistry, Anand Agril. University, Anand.

Research Paper List

Sr. No.	Title
1	J JDhruve and M Parameswaran (1996). Changes in composition of the seed in Bajra during seed development. <i>GAU Res. J.</i> 22 (1):35-39.
2	D N Vakharia, J JDhruve , S V Patel and M Parameswaran (1999). Influence of water deficit stress on stem carbohydrates and its fractions in ground varieties. <i>Research & Education in Agril. Biochemistry.</i> Pp. 61-65.
3	Vakharia D. N., Kukadia A. D., Dhruv J. J. , Kandoliya U. K. and Parameswaran M (2004). Variability in total polyamine in groundnut leaves and seedlings of different genotypes. <i>National symposium: Enhancing productivity of groundnut for sustaining food and nutritional security.</i> Pp. 252-253.
4	Patel S. V., Dhruve J J, Kandoliya U. K., Parameswaran and Vakharia D. N. (2004). Effect of different fertilizer levels on quality parameters of groundnut, wheat and sorghum under intensive cropping system. <i>National symposium: Enhancing productivity of groundnut for sustaining food and nutritional security.</i> Pp. 105-106.
5	J JDhruve and D N Vakharia (2007). Amelioration of Polyethylene Glycol Simulated Water Deficit Stress by Benzyladenine in Groundnut <i>Indian J Agric Biochem</i> 20(2): 53-58,
6	J JDhruve and D N Vakharia (2008) Groundnut Response to Benzyl Adenine under Water Stress at different Phenophases <i>Indian J Agric Biochem</i> 21 (1 & 2)21-26
7	J JDhruve , D N Vakharia and Y M Shukla (2009). Role of Benzyladenine on Oxidative Enzyme System in Groundnut 98 <i>Indian J Agric Biochem</i> 22(2): 98-101
8	A.V. Kotecha, J.J. dhruve and N.J.Vihol (2011). Effect of foliar application of micronutrients and growth regulators on growth and yield of cabbage (<i>Brassica oleracea</i> L. Var. capitata) cv. GOLDEN ACRE <i>The Asian Journal Of Horticulture</i> 6(2): 381-384
9	Nilam Bangar, JJ Patel and JJ Dhruve (2012). Screening for Varietal Susceptibility of Okra Genotypes/Cultivars to <i>E. vittella</i> and Correlation between Biochemical Constituents and <i>E. vittella</i> Infestation. <i>Indian J Agric Biochem</i> 25 (1), 76-79.
10	J. J. Dhruve and D. N. Vakharia (2013). Influence of water stress and benzyl adenine imposed at various growth stages on yield of groundnut <i>International Journal of Plant and Animal Sciences</i> Vol. 1 (1): 005-010.

11	J JDhruve , Rutika Shah, Swati Gandhi and J G Talati (2014). Biochemical and Morphological Traits of Different Cultivars of Brinjal Fruits Growing in Anand (Gujarat). <i>Indian J Agric Biochem</i> 27 (2): 211-214.
12	Jitendra Dhruv and Poonam Chaudhary (2015). Evaluation of tomato (<i>Lycopersicon esculentum</i> Mill). Genotypes on the basis of physiological and biochemical characteristics <i>IJTA</i> 33(2): 1293-1299.
13	Poonam Chaudhary and Jitendra Dhruv (2015). Studies on pre-harvest treatments on physiological and plant protection characteristics in tomato (<i>Lycopersicon esculentum</i> Mill). <i>IJTA</i> 33(2): 1287-1292
14	Poonam Choudhary and Jitendra Dhruv (2015).Effect of pre-harvest treatments on oxidative enzymes during developmental stages in tomato (<i>Lycopersicon esculentum</i> Mill.) (<i>Gujarat Green Farming</i> Vol. 6 (1) : 186-188 ; January-February,
15	P. G. Joshi* and J.J.Dhruve (2015). Amelioration of polyethylene Glycol Simulated Water Deficit Stress by Benzyl Adenine in Pearl Millet Seedling <i>Int.J.Curr.Microbiol.App.Sci</i> 4(7): 486-497
16	P. G. Joshi and J. J. Dhruve (2015) Benzyladenine Mediated Enhancement On Pearl Millet Seedlings Under Polyethylene Glycol(Peg) Induced Water Deficit Stress <i>Biochem. Cell. Arch.</i> 15(2): 515-524.
17	J JDhruve , Y M Shukla, Rutika Shah, Jignesh Patel and J G Talati (2015). Contribution Of Okra (<i>Abelmoschus Esculentus</i> L.) Seeds Towards The Nutritional Characterization. <i>World Journal Of Pharmacy And Pharmaceutical Sciences</i> 4(7): 1009-1023
18	Jignesh Patel, J. J. Dhruve and J. G.Talati (2015). Nutraceutical and molecular characterization of different fenugreek (<i>trigonellafoenum-graecum</i> l.) genotypes. <i>World journal of pharmacy and pharmaceutical sciences</i> 4 (06): 1267-1287.
19	Jignesh Patel, J. J. Dhruve and J.G.Talati (2015). Biomolecular Characterization of Different Fenugreek Genotypes (<i>Trigonellafoenum-graecum</i> L.) <i>Int.J.Curr.Microbiol.App.Sci</i> 4(6): 201-210
20	Jyotsana N Chaudhary ¹ , Vyomesh S Patel ¹ , YM Shukla and JJ Dhruve (2016). Assessment of Genetic Diversity in Mustard (<i>Brassica juncea</i> L.) Genotypes using Biochemical and Molecular Markers <i>Indian J Agric Biochem</i> 29 (2): 205-213
21	Hirdayesh Anuragi, Haresh L. Dhaduk, Sushil Kumar, Jitendra J. Dhruve , Mithil J. Parekh Amar A. Sakure (2016). Molecular diversity of Annona species and proximate fruit composition of selected genotypes <i>23 Biotech</i> (2016) 6:204
22	Y M Rojasaara, Rutika Shah, J JDhruve and I U Dhruj (2016). Biochemical Changes in Groundnut Due To Late Leaf Spot (<i>Phaeoisariopsispersonata</i> (Berk. & Curt.) von. Arx) <i>Advances in Life Sciences</i> 5(14): 5568-5573
23	Kotecha, J.J. Dhruve , N. J. Patel AND N.J.Vihol (2016) Influence of micronutrients and growth regulators on the performance of cabbage quality A.V. <i>Adv. Res. J. Crop Improv.;</i> 7(1) : 46-51
24	A.V. Kotecha, Jignesh Patel and J.J.Dhruve (2016). Influence of Micronutrients and Growth Regulators on Shelf-life of Cabbage <i>Int.J.Curr.Microbiol.App.Sci.</i> (2016) 5(7): 329-336
25	J. J. Dhruve , Kinjal Bhutaka, Jalpesh Patel and D. N. Vakharia (2016). Investigation of Benzyl Adenine and Water Deficit Stress on Antioxidant Enzyme Activities in Peanut (<i>Arachis hypogaea</i> L.) <i>Advances in Life Sciences</i> 5(12): 5091-5100,
26	J. J. Dhruve , Jalpesh Patel Saleha Diwan and Y. M. Shukla (2016). Effect of Benzyl Adenine on Osmolytes content in Groundnut Cultivars at three Different Stages under Water Stress Condition <i>Advances in Life Sciences</i> 5(12),5118 -5128

27	DB Patel, RS Bhadane, JJ Dhruv and YM Shukla (2017). Effect of seed hardening chemicals on morpho-physiological attributes in green gram (<i>Vigna radiata</i> L.) International Journal of Chemical Studies 2017; 5(6): 05-07
28	Patel AA, Gohil DP, Dhruve JJ and Damor H I (2017). Heterosis for fruit yield and its quality characters in brinjal (<i>Solanum melongena</i> L.) Journal of Pharmacognosy and Phytochemistry 6(6): 975-978.
29	Jalpesh S. Patel, A. R. Japda, J.J. Dhruve and N.J. Patel (2017). Antioxidant Enzymes in Leaves of Susceptible and Resistant Okra Genotypes against YVMV <i>Int.J.Curr.Microbiol.App.Sci</i> 6(2): 1540-1550
30	J.S. Patel, J.J. Dhruve , G.N. Motka and A.D. Patel (2017). Influence of Plant Growth Regulators and Boron on Nutritional Quality and Shelflife of Aonla Fruit India. <i>Int.J.Curr.Microbiol.App.Sci.</i> 6(4): 2533-2540
31	Vyomesh S. Patel, Y.M. Shukla and J.J. Dhruve (2017) Influence of Root Knot Nematode (<i>Meloidogyne spp.</i>) on Phenolic Acid Profile in Root of Tomato (<i>Solanum lycopersicum</i> L.), Gujarat, India. <i>Int.J.Curr.Microbiol.App.Sci</i> 6(10): 840-848
32	Balwani AK, Patel JN, Acharya RR, Gohil DP and Dhruve JJ (2017). Heterosis for fruit yield and its component traits in brinjal (<i>Solanum melongena</i> L.) Journal of Pharmacognosy and Phytochemistry. 6(5): 187-190.
33	Kinjal Bhutaka, JJ Dhruve , DP Gohil and JG Talati (2018). Influence of variety on morphological and some phytochemical and biochemical characteristics of okra seed International Journal of Chemical Studies 6(2): 1913-1919.
34	Jalpesh S Patel and JJ Dhruve (2018). Correlation Among Morphological, Biochemical and Entomological Attributes in Leaves of Okra Grown under Anand Region <i>Indian J Agric Biochem</i> 31 (1), 58-64, 2018.
35	Rutika Shah, Kinjal Bhutaka, JJ Dhruve and YM Shukla (2018). Proximate and antinutrient compositions of indigenous okra (<i>Abelmoschus esculentus</i> L.) International Journal of Chemical Studies 2018; 6(6): 2100-2106.
36	Patel, J.S., Japda, A.R. & Dhruve, J.J (2018). Assessment of genetic diversity of okra (<i>abelmoschus esculentus</i> l.) For yvmv using rapd and ssr markers. <i>IJABR</i> , (2) : 217-223
37	JJ Dhruv , NJ Patel and JG Talati (2019). Impact of Benzyl Adenine on Metabolic Activities of Wheat under PEG Induced Water Stress <i>Indian J Agric Biochem</i> 32 (1), 115-121.
38	JJ Dhruv NJ Patel and Shraddha Parmar (2019). Nutraceutical Importance of Vegetables and Their Use for Human Health: A Review <i>Indian J Agric Biochem</i> 32 (2), 132-142.
39	SB Diwan, Mohammedtarik Saiyad and JJ Dhruve (2019). Effect of foliar application of silicon on growth and development of okra fruit. <i>Journal of Pharmacognosy and Phytochemistry</i> 8(2): 1552-1558.
40	Dimpal M. Zala and J. J. Dhruv (2019). Contribution of Pumpkin Seeds Towards the Nutritional Characterization <i>International Journal Of Tropical Agriculture</i> 37(1): 41-51
41	Akarsh Parihar, M. B. Vaja, J. J. Dhruve · Rukhsar · Sushil Kumar (2020). Identification of useful recombinants from interspecific hybrids of <i>Citrullus lanatus</i> and <i>C. colocynthis</i> Vegetos An International Journal of Plant Research and Biotechnology https://doi.org/10.1007/s42535-020-00131-8 .
42	Dimpal M. Zala and J. J. Dhruv (2020). Nutraceutical Characterization of Pumpkin Fruit (<i>Cucurbita moschata</i> Duch. ex. Poir) <i>Indian J Agric Biochem</i> 33 (1): 76-80.
43	Joshi P. G. and Dhruve. J. J (2021). Mitigation of Abiotic stresses through application of Benzyladenine in crop plants. <i>AgriBiotech e-Newsletter</i> 1(3): 26-29.
44	NK Pagi, JJ Dhruv , MJ Patel and HR Patel (2021). Nutritional Characterization of Guava

	(<i>Psidium guajava</i> L.) under Middle Gujarat Condition. <i>Indian J Agric Biochem</i> , 34 (1): 96-101.
45	JJ Dhruv , Jalpa Dobaria and YM Shukla (2022). Plant Secondary Metabolites in Stress: An Overview <i>Indian J Agric Biochem</i> 35 (2): 120-132.
46	Ramkailash Mishra, Atul B. Patel, Nikesh J. Bhagora, Jitendra. J. Dhruv , Fulabhai P. Savaliya (2022). Influence of Feeding Different Maize Varieties on Production Performance and Egg Quality of White Leghorn Birds in India <i>The Indian Journal of Veterinary Sciences & Biotechnology</i> 18(1):49-53.
47	Sneha D Patel, Nilesh J Patel, Amar A Sakure, Sushil Kumar J. J. Dhruv (2022). Detection of the potential of seed kernel for food industries through biochemical evaluation of diverse mango cultivars. DOI:10.1007/s10341-022-00759-7
48	Faldu TA, Trivedi AP, Dhruv JJ and Chaudhary KB (2023) Study on the impact of foliar application of growth regulators and micronutrients on morpho-physiological and yield parameters of onion (<i>Allium cepa</i> L.) cv. GAWO-2 <i>The Pharma Innovation Journal</i> 12(9): 862-867
49	Venkata Yaswanth Amara, JJ Dhruv , Akarsh Parihar, Parthavi Patel and Nirali Gamit (2023). Characterization of potato cultivars using EST-SSR and ISSR markers. <i>The Pharma Innovation Journal</i> 12(6): 2987-2997.
50	KB Chaudhary, SJ Macwan, JJ Dhruv , JJ Ghadiali and Saumya Shruti (2023). Impact of plant growth regulators and chemicals on growth and quality in green gram [<i>Vigna radiata</i> L.] cv. GAM-5 <i>The Pharma Innovation Journal</i> 2023; 12(3): 1938-1941.
51	SR Parmar, JJ Dhruv and JD Dobaria (2023). Effect of seed priming on morphological characters with melatonin and nematicide in tomato (<i>Solanum lycopersicum</i> L.) <i>The Pharma Innovation Journal</i> 12(12): 2155-2159.
52	AJ Patel, BN Satodiya, KD Rathod and JJ Dhruve (2023). Influence of varieties to foliar application of Zn and Fe for growth, yield and quality of okra <i>The Pharma Innovation Journal</i> 12(12): 1954-1958.
53	Amit Mehta, Jitendra. J. Dhruv and Suresh. M. Bambhaneeya (2023). Morpho-physiological and biochemical attributes as tools to screen tolerance and susceptible rice cultivars for drought stress <i>Environment Conservation Journal</i> 24 (2):200-207.
54	J D Dobaria, J J Dhruv, S R Parmar and N J Patel (2023). Effect of exogenous silicic acid on germination and seedling establishment in brinjal. <i>Indian Journal of Agricultural Biochemistry</i> . 36 (2):177-182.
55	Harshad R Sodhaparmar, Yogesh M Shukla, Jitendra J Dhruve , Nil A Patel and Tushar J Bedse (2024). Identification of simple sequence repeats (SSRS) for TLCV resistance in tomato (<i>Solanum lycopersicum</i> L.) <i>International Journal of Advanced Biochemistry Research</i> SP-8(1): 173-184.
56	Dobaria JD, Dhruv JJ , Parmar SR, Patel NJ (2023) Effect of exogenous silicic acid on germination and seedling establishment in Brinjal. <i>Indian Journal of Agricultural Biochemistry</i> 36 (2): 177-182.
57	JD Dobaria, JJ Dhruv and Mihir Pandya (2024). Evaluation of biostimulants effect on various parameters and its relation to insect-pest infestation on two genotypes of Brinjal. <i>International Journal of Advanced Biochemistry Research</i> 2024; SP-8(6): 373-380.